

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (Previously Presented)

A brazing sheet having a brazing filler metal composition and a structure of a sintered powder of at least two or more types of powders, the two or more types of powders ~~being not completely alloyed and in a mixed state~~ discretely mixed substantially throughout a cross section of the brazing sheet, wherein the brazing sheet is produced by mixing the powders in a predetermined proportion of weight to have the brazing filler metal composition, forming the mixed powders into a sheet shape by powder roll compaction, and sintering the mixed powders being in the sheet shape.

Claims 2-5 (Canceled)

Claim 6 (Previously Presented)

The brazing sheet according to Claim 1,
wherein the powder of the brazing filler metal composition is mainly composed of nickel.

Claim 7 (Previously Presented)

The brazing sheet according to Claim 1,
wherein the powder of the brazing filler metal composition is mainly composed of aluminum.

Claim 8 (Original)

The brazing sheet according to Claim 7, comprising 10 to 15 wt% of silicon.

Claim 9 (Previously Presented)

The brazing sheet according to Claim 1,
wherein the powder of the brazing filler metal composition is mainly composed of copper.

Claim 10 (Previously Presented)

A brazing sheet which is produced by forming a powder of a brazing filler metal composition into a sheet shape by powder roll compaction, wherein the powder of the brazing filler metal composition is not completely alloyed and in a mixed state in the brazing sheet, and the brazing sheet is composed of the brazing filler metal composition, wherein the powder of the brazing filler metal composition comprises a mixture of at least two or more types of powders which are mixed in a predetermined proportion of weight to have a composition of a brazing filler metal, the powder of the brazing filler metal composition is mainly composed of copper, and comprising 4 to 8wt% of phosphorus.

Claims 11-19 (Canceled)**Claim 20 (Previously Presented)**

A method of producing a brazing sheet, comprising:

rolling a powder of a brazing filler metal composition by powder roll compaction; and thereby forming the powder into a sheet shape, wherein the powder of the brazing filler metal composition is a mixture of at least two or more types of powders which are mixed in a predetermined proportion of weight to have a composition of a brazing filler metal, the powder of the brazing filler metal composition is mainly composed of copper, and 4 to 8 wt% of phosphorus is contained in the brazing sheet.

Claim 21 (Currently Amended)

A method of producing a brazing sheet, comprising:

rolling a powder of a brazing filler metal composition by powder roll compaction; and thereby forming the powder into a sheet shape, and

sintering of the powder being in the sheet shape, wherein the powder of the brazing filler metal composition is a mixture of at least two or more types of powders which are mixed in a predetermined proportion of weight to have a composition of a brazing filler metal, and the powder of the brazing filler metal composition is not completely alloyed and is in a mixed state.

Claim 22 (Previously Presented)

A method of producing a brazing sheet according to Claim 21, wherein the powder roll compaction is performed by: feeding the powder of brazing filler metal composition into a space formed by a pair of rolling rollers; and sequentially delivering the powder formed in the sheet shape.

Claim 23 (Previously Presented)

A brazing sheet according to Claim 1, wherein the grains of the brazing filler metal are discretely mixed substantially throughout a cross section of the brazing sheet.

Claim 24 (Previously Presented)

The method of producing a brazing sheet according to Claim 21, wherein the powder of the brazing filler metal composition is a mixture of at least two or more types of powders which are mixed in a predetermined proportion of weight to have a composition of a brazing filler metal.

Claim 25 (Previously Presented)

The method of producing a brazing sheet according to Claim 24, wherein the powder of the brazing filler metal composition is not completely alloyed and is in a mixed state.

Claim 26 (Previously Presented)

The method of producing a brazing sheet according to Claim 25, wherein the powder of the brazing filler metal composition is mainly composed of nickel.

Claim 27 (Previously Presented)

The method of producing a brazing sheet according to Claim 25, wherein the powder of the brazing filler metal composition is mainly composed of aluminum.

Claim 28 (Previously Presented)

The method of producing a brazing sheet according to Claim 27,
wherein 10 to 15 wt% of silicon is contained in the brazing sheet.

Claim 29 (Previously Presented)

The method of producing a brazing sheet according to Claim 25,
wherein the powder of the brazing filler metal composition is mainly composed of
copper.

Claim 30 (New)

A method of producing a brazing sheet according to claim 21, wherein sintering of the
powder being in sheet shape is performed at a temperature corresponding to between about 50%
and about 85% of a liquidus temperature of the brazing filler metal composition.